VEDENIKOV, G.S., dots., kand.tekhn.nauk

Most efficient structural shapes of prestressed steel girders. Nauch.

dokl.vys.shkoly; stroi. no.1:126-134 | 58. (MIRA 12:1)

1. Predstavlena kafedroy metallicheskikh konstruktsiy Moskovskogo inzhenerno-stroitel nogo instituta imeni V.V. Kuybysheva. (Steel, Structural) (Girders-Testing)

BELENYA, Yevgeniy Ivanovich, doktor tekhn. nauk, prof.;

VEDENIKOV. G.S., kend. tekhn. nauk, retsenzent; PIMENOV,

I.L., retsenzent; FOFOV, S.A., kand. tekhn. nauk, nauchm.

red.; BORODINA, I.S., red.; GOL'BERG, T.M., tekhn. red.

[Supporting elements of prestressed metal] Predvaritel'no napriazhennye metallicheskie nesushchie konstruktsii. Moskva, Gosstroiizdat, 1963. 322p. (MIRA 17:1)

STRELETSKIY, Nikolay Stanislavovich, doktor tekhn. nauk, prof.;

BFLENYA, Yevgeniy Ivanovich, prof.; VEDENIKOV. Georgiv
Stanislavovich, dots.; MUKHANOV, Konstantin Konstantinovich,
dots.; LESSIG, Tevgeniy Nikolayevich, dots.; POPOV, S.A.,
kand. tekhn. nauk, nauchn. red.; Lileyev, A.F., inzh.,
nauchn. red.

[Metal elements: a special course] Metallicheskie kon-

[Metal elements; a special course] Metallicheskie konstruktsii; spetsial'nyi kurs. Pod red. N.S.Streletskogo. Moskva, Stroiizdat, 1965. 366 p. (MIRA 19:1)

1. Chlen-korrespondent AN SSSR (for Streletskiy).

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859220013-0"

BELENYA Yevgeniy Ivanovich, doktor tekhn. nauk, prof.; VEDENIKOV,

G.S., kand. tekhn. nauk, retsenzent; PIMENOV, I.L., kand.

tekhn. nauk, retsenzent; POPOV, S.A., kand. tekhn. nauk,
nauchn. red.; BORODINA, I.S., red.

[Bearing structures of prestressed metal] Predvaritel'no napriazhennye metallicheskie nesushchei konstruktsii. Mo-skva, Gosstroiizdat, 1963. 322 p. (MIRA 17:5)

A CONTROL OF THE PROPERTY OF T

VEDENTKOV. G. 5.

"Certain Problems of the Space Work of Beam Bridges." Thesis for degree of Cand. Technical Sci. Sub 6 Jun 49, Moscow Order of the Labor Red Banner Engineering Con-Struction Inst imeni V. V. Kuybyshev

Summary 82, 18 Dec 52, <u>Dissertations</u>
Presented For Degrees in Science and
Engineering in Moscow in 1949. From
Vedhernyaya Moskva, Jan-Dec 1949

VEDENIKTOV, A.F.

Case of recurrent rupture of the bladder. Urologiia 24 no.1:61-62 Ja-7 159.

(MIRA 12:1)

1. Iz kafedry fakul'tetskoy khirurgii (zav. - prof. A.G. Karavonov)

Kalininskogo meditsinskogo instituta na baze urologicheskogo otdeleniya oblastnoy bol'nitsy.

(BIADDER, wds. & inj.

posttraum. spontaneous recur. rupt. (Rus))

ANTIMONOV, B.S., prof.; VEDENIN, N.N., kand. yurid. nauk; GENKIN, D.M., prof.; GRAVE, K.A., prof.; YEPANESHNIKOV, N.V., dots.; ZHUKOVA, L.F., dots.; KUNIK, Ya.A., dots.; L'VOVICH, Yu.Ya.; MARGOLIN, M.Z.; MOROVSKAYA, T.A., dots.; POLENINA, S.V., kand. yurid. nauk; SADIKOV, I.N.; FIALKOV, M.A., kand. yurid. nauk; YAZEV, V.A., kand. yurid. nauk; YAKHNINA, N.A., kand. yurid. nauk; KIRAKOZOVA, N.Sh., red.; YAKHNINA, N.A., kand. yurid. nauk; KIRAKOZOVA, N.Sh., red.;

[Government trade regulation] Regulirovanie gosudarstvennoi torgovli. Moskva, Gostorgizdat, 1963. 339 p. (MIRA 16:7) (Commercial law)

THE STATE OF THE PROPERTY OF T

MARCHENKO, Ya.V.; VEDENIN, P.S., brigadir elektromontazhnikov

Installing main cables of the interior electric wiring without using pipes during the construction of buildings. Suggested by IA.V. Marchenko, P.S. Vedenin. Rats.i izobr.predl.v stroi. no.13: 118-120 159. (MIRA 13:6)

1. Nachal'nik uchastka Stroitel'no-montashnogo upravleniya No.l tresta No.27 Mytishchistroy Glavmosobletroya, stantsiya Mytishchim Moskovskoy oblasti, Vodoprovodnaya ul., d.13 (for Marchenko).

2. Uchastok Stroiltel'no-montachnogo upravleniya No.l tresta No.27 Mytishchistroy Glavmosobletroya. stantsiya Mytishchim Moskovskoy oblasti, Vodoprovodnaya ul., d.13 (for Vedenin).

(Electric wiring, Interior)

VEDENIN, V.A.

Method for sending unprocessed material through the mail for laboratory examination. Lab.delo 4 no.3:56-59 My-Je '58 (MIRA 11:5)

l. Iz Bryanskogo oblastnogo kozhno-venerologicheskogo dispansera (glavny vrach F.V. Trufanov).
(BLOOD-ANALYSIS AND CHEMISTRY)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859220013-0"

The second secon V. I.; Vedenin, .. A. Grik and TITLE: The ideal working regimen and theoretical indicative diagrams of a tworotor vacuum pump with partial internal . ompression SOURCE: IVUZ. Mashinostroyeniye, no. 10, 1964, 119-132 TOPIC TAGS: vacuum pump, pump design, pump operation, rotary pump, two rotor pump, internal compression, gas distribution, pressure valve ABOTEMT: The authors studied a twin-rotor vacuum pump from the points of view the strength, and the The basic definitions is the company of the pain design of the contract of the the pasts perturbations were set up. Since, in general, there were 3 validities, we of criprive functions were set up. them a construction (a table, each variable was of gred as a function of the other for a congruence of the matter pressure "Hive produces a significant. Two presents imparations valves. The Sittle one of the breshall white as in

L 2569C-65

ACCESSION NR: AP5000868

pressure and with decreasing m, this being a construction parameter reflecting a decrease in radius. Therefore, pressure valves increase the economy of operation of a vacuum pump. For $m \leq 0.721$ the indicative pressure curves show a maximum. For m > 0.721 the order has no maximum, but increases uniformly with decreasing pressure ratios. An increase to main reases the internal indicative pressure, but the maximum smills toward lower pressures. Under various equivalent condimt only the alternation of the core was includative pressure feoreases with te-1-1-1-

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SUB CODE: IE, ME

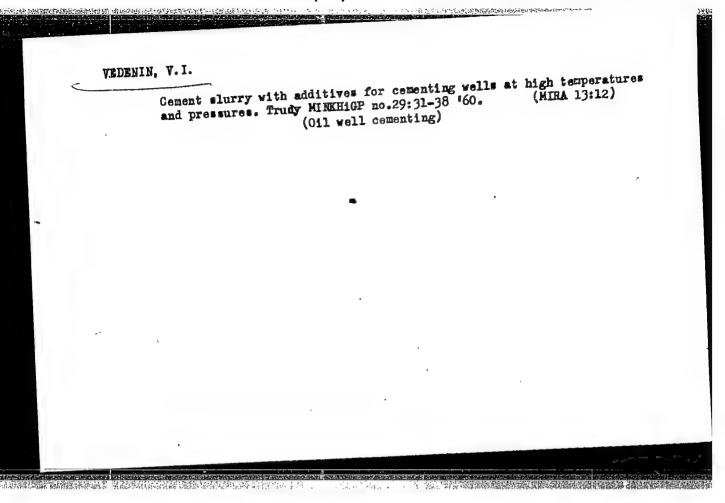
"APPROVED FOR RELEASE: 08/31/2001

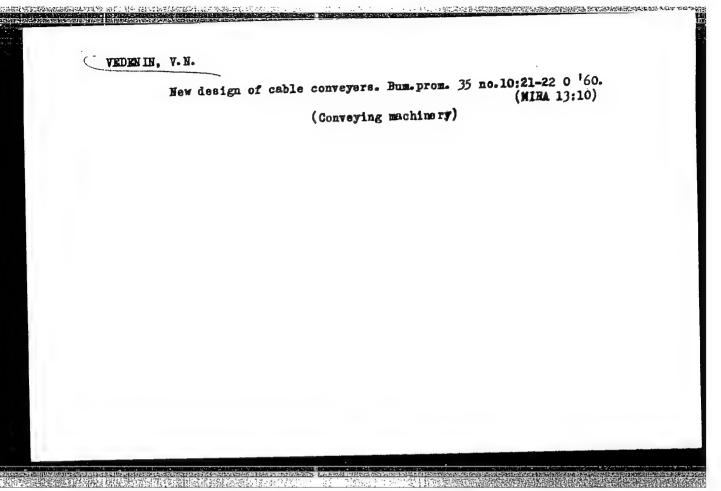
CIA-RDP86-00513R001859220013-0

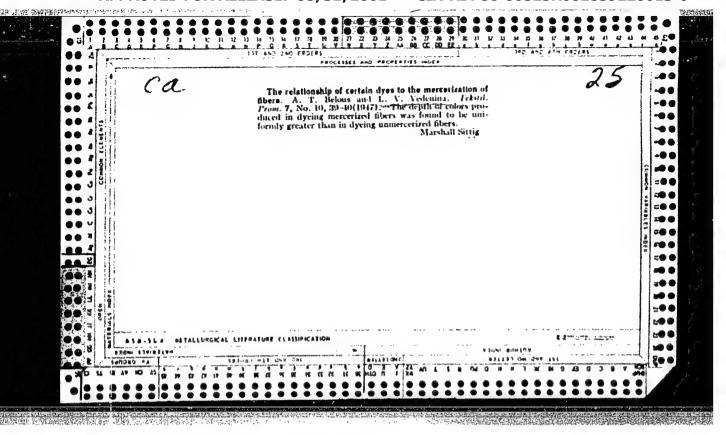
GRFBENNIKOV, N.P.; VEDENIN, V.I.

Drilling a deep well in salt-bearing sediments. Burenie nc.1:13-1? (MIRA 18:5)

1. Volgogradskiy nauchno-issledovatel skiy institut nefti i gaza i trest "Volgogradneftegazrazvedka".







SAVICHEVSKAYA, L.I. (Sverdlovsk); VEDEMINA, O.M. (Sverdlovsk); LUKANIN, V.P., professor, zaveduzushchiy.

Atresia of the mortic isthmus. Klin.med. 31 no.7:73-75 Jl '53. (MLRA 6:9)

1. Propedevticheskaya terapevticheskaya klinika Oblastnoy klinicheskoy bol'nitsy (for Lukanin). 2. Patologoanatomicheskoye otdeleniye Oblastnoy klinichenitsy bol'nitsy.

(Aorta-Abnormities and deformities)

"APPROVED FOR RELEASE: 08/31/2001

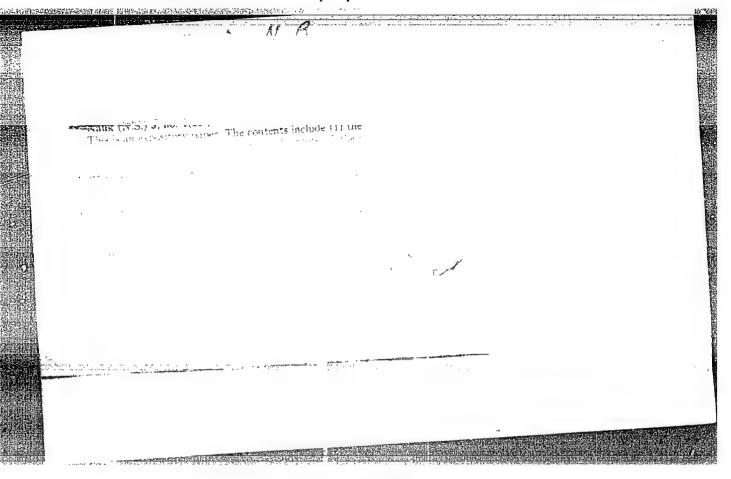
CIA-RDP86-00513R001859220013-0

VEDENISOV, B. I Dr.

Povyshenie Skorosti Dvizheniia, Vesa Sostavov, Hoschnosti i Effektivnosti Tiagovykh Sredstv Transporta (Increasing Speed of Motion - Weight of Rolling Stock, Power and Efficiency of Traction Equipment)

266 n. 1.50

SO: Four Continent Book List, April 1954



VEDENKIN, D.P., inzh., red.; ZASLAVSKIY, Ye.I., inzh., red.;

KOVAL'SKIY, L.Ye., inzh., red.; VOTTOVA, V.P., inzh.,
red.; SHELIKHOV, S.N., inzh., red.; KEUDAKIN, K.A., red.

[Price list for the assembly of equipment] TSennik na montazh oborudovaniia. Moskva, Stroiizdat. No.11. 1965. 104 p. (MIRA 18:2)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosstroy SSSR (for Vedenkin).
3. Nauchno-issledovatel'skiy institut ekonomiki stroitel'stva Gosstroya SSSR (for Zaslavskiy, Koval'skiy, Voytova).
4. Proyektno-konstruktorskoye byuro No.12 Glavmontazhavtomatiki (for Neudakin). 5. Vsesoyuznyy bank finansirovaniya kapital'nykh vlozheniy SSSR (for Shelikhov).

VEDENISOV, N. E.

Zamechaniya o nepreryvnykh funktsiyakh v topologicheskikh prostrenstvakh. M.,
Uchen zer ped. in-te, ser. fiz.-metem., 2(1938), 47-54

SO: Mathematics in the USSR, 1917-1947
edited by Kurosh, A. G.
Markushevich, A. I.
Rgchevskiy, F. K.
Moscow, Leningrad, 1948

OSTROVSKIY, I.I., inzh., red.; GRIGOROV, I.I., inzh., red.;
MURASHEV, A.G., inzh., red.; PECHURCHIK, S.A., inzh.,
red.; VEDENKIN, D.P., inzh., red.; KUDINOV, M.P., inzh.
red.; YELISEYEVA, Ye.Ye., inzh., red.; PETRUNIN, I.S.,
inzh., red.; TURIANSKIY, M.A., inzh., red.; POZDNYAKOVA,
L.V., inzh., red.; KOKOV, K.V., inzh., red.

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosstroy SSSR (for Ostrovskiy, Vedenkin, Kudinov). 3. Nauchno-issledovatel'skiy institut ekonomiki stroitel'stva Gosstroya SSSR (for Grigorov, Murashev, Petrunin, stroitel'stva Gosstroya SSSR (for Grigorov, Murashev, Petrunin, Yeliseyeva, Turianskiy, Pozdnyakova). 4. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy tsvetnoy metallurgii (for Pechurchik). 5. Gosudarstvennyy proyektnyy institut po proyektirovaniyu predpriyatiy tekstil'noy promyshlennosti (for Kokov).

WEDENKIN, G.S., prof.; MIKHAYLOVA, L.M.

Comparative study of the corrosion and corrosion-mechanical characteristics of open-hearth and converter steel. Trudy TSNII MPS no.252:96-109 163. (MIRA 16:8) (Steel, Structural--Testing)

VEDENKIN, S. G., prof.

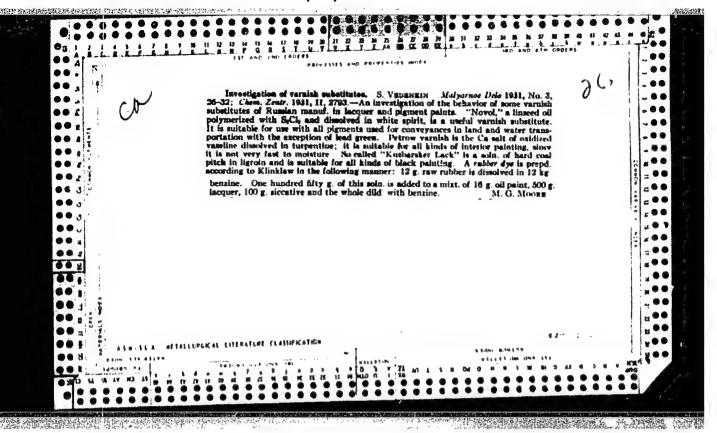
Chemistry at the service of reilroad transportation. Khim. v (MIRA 15:10) shkole 17 no.4:14-24 J1-Ag *62. (MIRA 15:10)

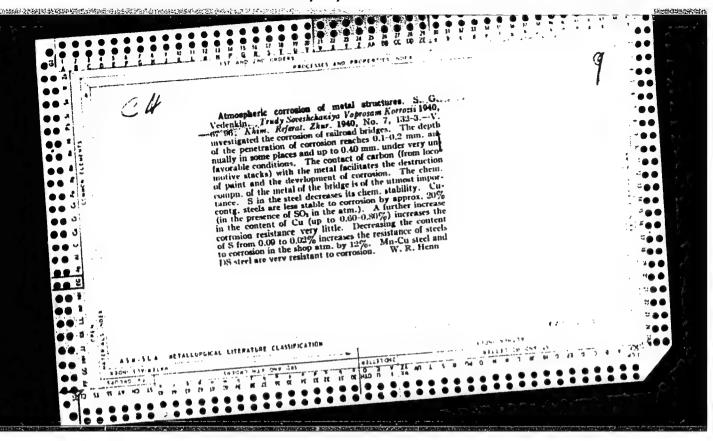
(Railroad research) (Chemistry, technical)

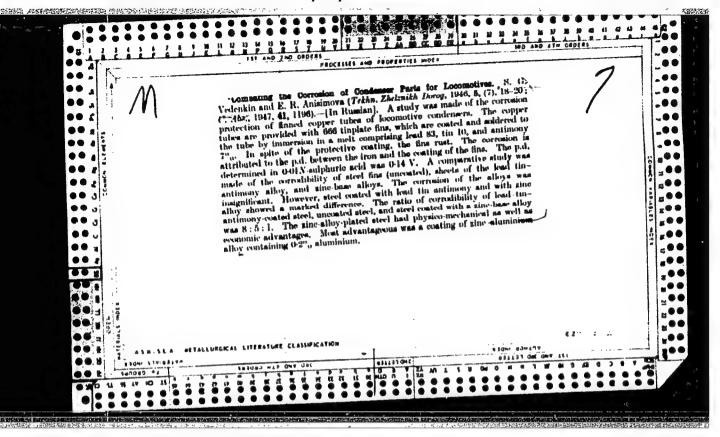
VEDENOV, A.A.; RUDAKOV, L.I. Wave interaction in continuous media. Dokl. AN SSSR 159 no.42
(MIRA 1821)

1. Predstavleno akademikom M.A. Leontovichem.

767-770 D 164







VEDENKIN#, S. G. USSR/Locomotives

4602.0401

Dec 1947

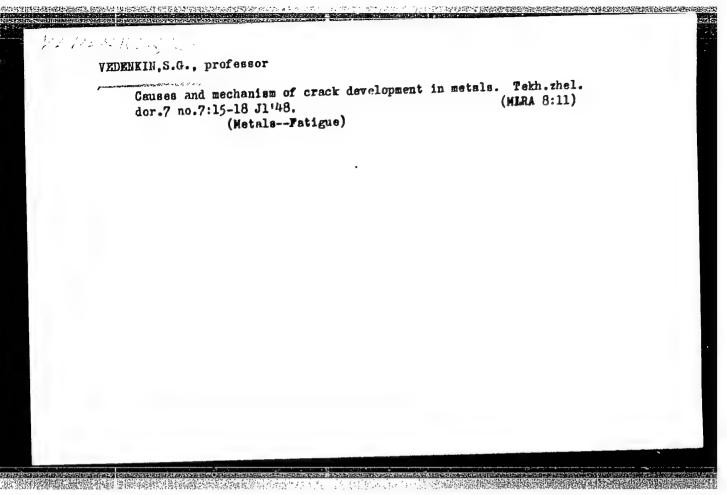
"Combatting Loss and Frothing of Water in Locomotive Boilers" 4 p

"Zh-d Transport" No 12

At plenary session of Scientific-Technical Council of Ministry of Transportation, F. I. Fridman reported on measures for combatting frothing and loss of water from locomotive boilers and S. G. Vedenkina spoke on protection of locomotive boilers from corrosion. Decision spoke on protection of locomotive boilers from corrosion. Decision reached to pursue studies in these fields and to apply practical results.

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"Corrosion	of Me	etals	Under	Stress	and	Methods	of	Frotection,"	Mashgiz,	Hoscow,	1950
						•					

VEDENKIN, S. G.

RT-1567 (The study of corrosion stability of boiler steels under the action of high temperature steam) Izuchenie korrozionnoi stoikosti kotel'nykh stalei pod vozdeistviem para vysokikh temperatur. Pages 62-76 from:
KORROZIIA LETALLOV POD NAPRIAZHENIEM I SPOSOBY ZASHCHITY. Moscow, 1950 (Orginal Russian source unavailable for review)

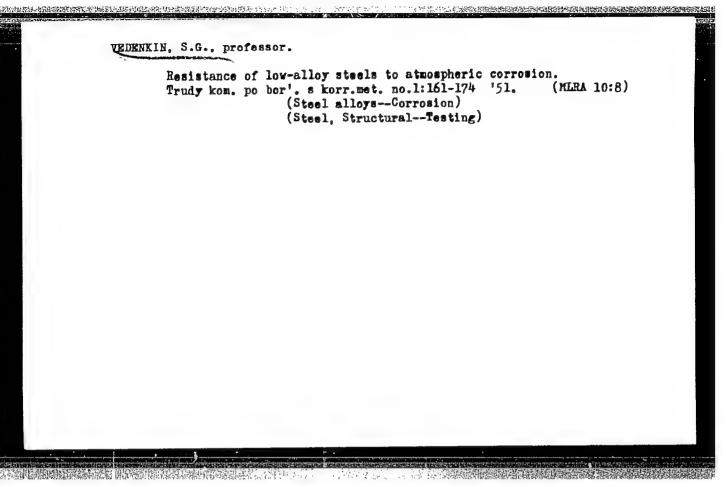
VEDERIN, S. G.

"Atmospheric Corrosion of Metals," Metallurgizdat, Moscow, 1951.

VEDENKIN, S. G. (Prof.)

"Atmospheric Endurance of Low-Alloy Steels," p. 161 of Problems of Sea Corrosion, 1951.

Book W-22365, 14 Apr 52



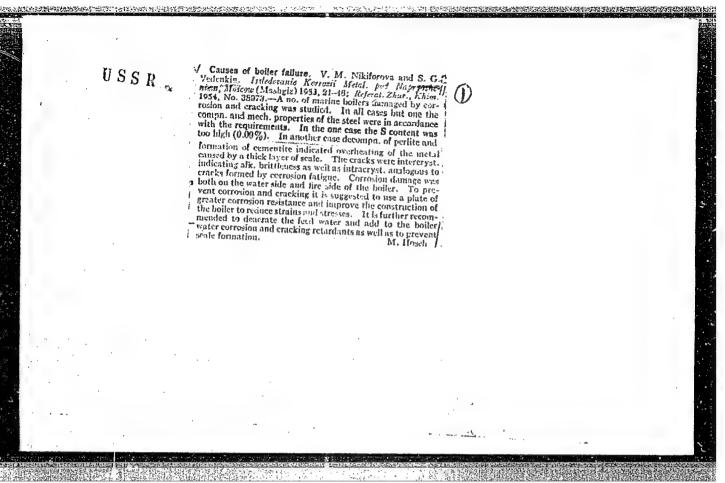
VEDENKIH, S G Korrozionnyye Svoystva Metallov i Splavov (Corrosive Characteristics of Metals and Alloys) Moskva, Metallurgizdat, 1 52.	h/5 615.8 .V41	
77 p. tables (Korroziya i Eashchita Metallov, Mazdel 2) "Literatura": p. 77-(78)		
	esperit patrociculus susuines	

VEDERWIN, S. G. (Prof) and MIKIFOROVA, V. M. Cand Tech Sci

"Gauses of Boiler Damage," one of eight articles a pearing in the book:
"Investigation of the Stress Corrosion of Metals," edited by C.V. Akimov, Mashriz, Moscow, 1953.

Central Scientific Research Inst. of Technology and Machine Bldg.

Translation W-31586, 15 Dec 55



VEDENKIN, S.G., professor: KUZNETSOV, V.G., inshener; KAZARNOVSKIY, S.N.,

Improving lacquers and paints. Standartizateiia no.2:12-17 Mr-Ap 154. (MLRA 7:6)

1. TSentral'nyy nauchno-issledovateliskiy institut Ministerstva putey soobshcheniya. (Paint materials--Standards)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859220013-0"

SOV/124-58-2 2369

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 2, p 115 (USSR)

Vedenkin, S.G. AUTHOR:

On the Stress Corrosion of Metals (O korrozii metalla pod TITLE:

napryazheniyem)

PERIODICAL: Korroziya metallov i metody bor' by s neyu. Moscow, Oborong z

1955, pp 3-25

Excerpts from a report on stress corrosion presented at a scientific-technical meeting. Results of some investigation in that ABSTRACT:

field are described.

From the résumé

Card 1/1

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859220013-0"

VEDENKI, S.G., professor; KAZIMIROVSKAYA, Ye.L., inzhener.

Effect of gaseous media on the corrosion of alloys at high temperatures. (Review of foreign literature, 1951-1954). Metalloyed.i obr.met. no.5:55-63 My 156. (MLRA 9:8) (Metals at high temperatures) (Steel alloys--Corrosion)

VEDERKIN, S.C.

KUK, F. [Cook, F.E.]; PREYZER, Kh. [Preiser, H.S.]; MILIS, Dzh. [Mills, J.F.];
YAKUBOVSKIY, V.A. [translator]; VEDERKIL, S.L., professor, redaktor;
IVANOV, K.A., redaktor izdatel stvs; Tikhomova, Ye.A., tekhnicheskiy
redektor

[Elactrical method of rust removal from tanker ship compartments.
Translated from the English] Katodayi sposob ochistki sudovykh tankov
ot tshavchiny. Perevod s angliiskogo. Moskva, Izd-vo "Morskot
ot tshavchiny. Perevod s angliiskogo. Moskva, Izd-vo "Morskot
ot tankoventa," 1956. 41 p.

(Tank vessels)

(Corrosion and anticorrosives)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859220013-0"

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J

Vedenkin, S.G.

USSR/Corrosion. Protection from Corrosion.

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 10541

: Vedenkin, S. G. and Kazimirovskaya, Ye. L. Author

On the Effect of Gaseous Media on the Corrosion of Alloys Inst Title

at High Temperatures

Orig Pub: Metallovedniye i obrabotka metallov, 1956, No 5, 55-63

Abstract: A survey of the foreign literature from 1951-1954. authors list methods for corrosion testing; data on the effect of the composition of the gaseous media on the corrosion of alloys; on the effect of Va and of its oxides on the heat resistance of alloys, and on the corrosion resistance of highly alloyed alloys and materials used in high-pressure steam boilers are also given.

Card 1/1

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859220013-0"

KRYANIN, Iven Romanovich; VEDENKIN, S.G., prof., retsenzent; KULIKOV, F.V., inzh., red.; EL KIND, V.D., tekhn.red.

[Hydroturbine vanes; cavitation collapse, research and study of data] Lopasti gidroturbin; kavitatsionny razrusheniie, izyskanie i issledovanie materialov. Moskva, Gos. nauchno-tekhn.izd-vo mashino-stroit. lit-ry, 1958, 206 p. (MIRA 11:3) (Cavitation) (Hydraulic turbines--Blade)

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Figulians Probrasted Corresion of Thicknalled	I. Significance of Smifate-reducing the Correcton of Metallic Equipment	thed for Determining the	Triful', R.S. Nethod of Determining the Specific Na- aletames of Coatings and the Corresive Preparties of the Medium	Mikhaylevskiy, Yu. H., and H.D. Tomashov. Nathod for Determining the Corrolive Preparties of Soils	Twieskin, S.O., and Y.S. Artanoner. Corresion and Probetton of Cast Tabing in Submy Installations	PARTE OF CONTENTS:	installations (S.G. Vedenkin and protection of underground and S.S. Popor). There are 161 references, Y.A. Fritula, Seriet, 30 English, and 3 German.	i. To derdywhita; 5) development of methods for determin the corresion activity of soils (Tu. M. Mikhaylovskiy, M.D. Tomahov, M.S. Trifel, and V.V. Krasnovansky,	AFERMORY; θ) prevention of stray current corresion (1. Brishweskiy,).E. Tomiyanovich, F.G. Doroshenko, and Card $2/\tau$	and the improved tachnology in manufacturing and apply to protestive coatings to subtermanean metallic installation. It. In fairpant to subtermanean metallic installation. It. In fairpant v.i. Zuukov M.D. Drharkov, and V.S.	ef esthodic and anodic protection of underground stabilities (A.F. Lunev, f.R. Tershov, v.G. Kotk, V.V. Kranovani and A.M. Teshov, v.G. Kotk, V.G.	the conference received particular attention: 1) theory of metal correction underground (N.D. Toushow and S.I. Eussetsey): 2) theory. calculation. and unactical anni	Conference of the committee on the Control of Correcton of the Academy of Sciences, USSM, hald in May, 1956. The following estatics and technical problems of seminal at	metallurgists ecocormed with the problem of metal corresion as addressed installations.	Tech Ed. 1-5. Kaddina.	Maineau Mesp. M. I M.D. Tomanhov, Troftssor, Dostor of		or resunted Sciences; N.D. Tomashov, Professor, Doctor Smeatcal Sciences; and F.V. Shchigolev, Candidate of Ch	Milerial Board: I.M. Fershor, Cardidate of Technical Sciences; A.F. Issuer, Cardidate of Chemical Sciences; To.W. Mchayloveith Cardidate of Chemical Sciences, I.F. Stringently, Cardidate	Spensoring Agency: Akademiya mank SISE. Institut fisiohoskoy haindi. Komisalya po bor'be s korroniyay metallov.	estaces or the ora all-union Conference on Correion an Prefection of Metals) Noscor, 1958, 273 p. Erwan in innerted. 3,000 copies printed.	Section 1 practical protivokrorosionney sambabity podsemyth secondary trudy serembahaniya (Theory and Application deli-corrosion passayes of Subterranean Installations) Two	Tessyumoye soveshohaniye po korrosii 1 sashohite metalloveth, Mescow, 1936	1A(5) FRAME I BOOK EXPLOITATION SOF/1882	
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SINYAVSKIY, V.S., inzh.; VEDERKIN, S.G., prof.

Aluminum alloys used in railroad car construction. Vest. TSHII MPS
17 no.8:30-34 D '58. (MIRA 12:1)

(Railroads—Cars—Construction) (Aluminum alloys)

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Det 5/	Exposure, Y.Ya. Effect of Chrome Relating on the west. ing parts The actions studies the effect of omthodic current density and temperature of the electrolyte on the wear resistance of the deposit and the placed insert.	Whore, A.F., Leading W. (Engliser) and W. L. Bridey (Santor Tech- bichical Science), V. Fr. Navgy (Engliser) and W. L. Bridey (Santor Tech- michia). Investigating the Possibility of Applying Wer-Westsant Chrome ringing to more Oracle on the basis of the similarity to the process of Investigation is made on the basis of the similarity to the process of Investigation is made on the basis of the similarity to the process of Investigation is made on the basis of the similarity to the process of Investigation of the process of the similarity of the si	PARK III. PHOTECTIVE COARLINGS PARK III. PHOTECTIVE COARLINGS [Chaddante of	meter-tender-Operating Continues The authors when recommendations for the most entends metals for The authors and outer limings of carbon bisulating retorts. Index and outer limings of carbon bisulating retorts. Index and outer limings of sarbon bisulating retorts. Index problems of the sarbon of Alloys Used to Cas Turbines in Many Paul on Scale and Sarb Westland Or Alloys Used to Cas Turbines in Many Paul on Scale and Sarb Westland Or Alloys Used to Cas Turbines in Many Paul on Scale and Sarb Sarb and non-Soriet literature on the subject and discuss sethods of investigation. this subject and discuss sethods of investigation.		SALE OF THE PARTY	gardoreimays, Ta.A. long-time negress owners	7	Devidoraters 12.1. [Candidate of Pechaical Edinose) and the following production of Saula-basis thing Alloy Steals in hit French Cas Saula-basis thing Alloy Steals in hit French Cas Saula-basis thing to high-lamperature or datation of the arthurst discount the medical man of high-lamperature, order files of australia including temperature, order files of australia including temperature, order files of australia including temperature, order files of australia including temperature.	PART II. GAS COMMONICS AND INSTRUMENT OF THE BEAUTIFUL OF	PARTS OF CONTENTS: RELECTION, V.M., N.T. TRINGED [Candidate of Physical and hitematical in Relections, V.M., N. TRINGED [Candidate]. No thod of Relection of the Toward Internation Correlics by Utilia. By The relating the Nandacor of Steel Toward Internation Correlics by Utilia. By Righ-Crequency Resonance Instruments	companie: this collection of articles deals with problems to recovered by the collection under investigation at territorial during the past two years. The problems designed under investigation is the problems of contraction of the contraction of animous steels in gaseous media, probective conting, fortunate of animous relations of metals to continuion. No personalities are ting correction, and relations of metals to continuion. No personalities are ting correction, and relations of metals of metals of the continuion of the continuion.	remount this collection of articles is intended for designers, where the man industrial and research verters concerned with correcton and correcton and metals.	Ha.: A. W. Brabeshor, Derior of Chemical Sciences, Profilesor; No. v. Inc. 1987. To Lag Mouse: A. E. Strotin, Engineer; Tech. Mai: B. I. Model: No. Magine MA. For Lag Mouse: A. E. Strotin, Engineer; Tech. Mai: B. II. Model: No. No. Chemical Chemi	The strain of the shadown of the strain of t	1B(7) PRACE I BOOK RIFIGUATION BOY/2296	
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28(5) AUTHORS: SOV/32-25-4-32'71 Lapin, A. A., Sinyavskiy, V. S., Vedenkin, S. G.

TITLE:

Testing Metals for Corrosion Fatigue on an Electromagnetic Machine of the Natural-vibration Type (Ispytaniye metallov na korrozionnuyu ustalost; na elektromagnitnoy mashine avtokolebatel nogo tipa)

pater.uogo til

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 4, pp 461-463 (USSR)

ABSTRACT:

For studying the corrosion-fatigue resistance of aluminum alloys, new testing methods were developed which permit the kinetics of cracking to be determined. The machine suggested represents; in principle, an electromechanical generator with reverse coupling (Fig 1). The load frequency is determined by the fundamental frequency of the sample and can be changed in the range of from 30 to 200 cycles. The sample itself practically acts as a dynamic damper for the elastic element between the electromagnets. The sketch of the machine shows that selenium rectifiers VSA-5, an electromechanical counter SB-1 M-100, computing devices BK-3 with cathodes MTKh-90, as well as a microscope MPV-1 (for measuring the oscillation amplitude) and microscope MBS-2 (for observing the sample) are used. On the

Card 1/3

Testing Metals for Corrosion Fatigue on an Electromagnetic Machine of the Natural-vibration Type

machine described, samples of the aluminum-magnesium alloy AMG-6T (5.87% Mg, 0.60% Mn, 0.22% Si, 0.01% Cu, 0.14% Fe and 0.12% Ti) with the mechanical characteristics:

 $\sigma_{0.2}$ = 19 kg/mm², $\sigma_{\rm B}$ = 38 kg/mm² and δ = 22% were tested. A comparison of the destruction occurred was made by means of the standard generator ZG-12; a beam tube of the oscillograph EO-6 was used here. The samples were tested in air, distilled water and 3% NaCl solution. Satisfactory results were obtained (Fig 3) and - according to the character of the curves obtained (Fig 4) - it was stated that the fatigue process in air can be divided into three states. The propagation of cracks occurs mainly transcryptallitically according to the position of the β phase (Al₃Mg₂). There are 4 figures and 6 references, 5 of which are Soviet.

ASSOCIATION: Card 2/3

Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta (All-Union Scientific Research Institute of

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859220013-0"

MAKSIMOV, A.I., inzh.; SOROKIN, P.V., inzh.; DAVIDOVSKAYA, Ye.A., kand.

tekhn.nauk; VEDENKIN, S.G., prof.

Long-time strength of austenite steels in fuel combustion
products and in superheated steam. [Trudy]
TSNIITMASH
(MIRA 13:7)

(100:70-89 '59.

(Heat-resistant alloys)

85117

18.1210

S/123/60/000/517/001/016 A005/A001

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1960, No. 17, p. 19, # 91441

AUTHORS:

Vedenkin, S.G., Sinyavskiy, V.S.

TITLE;

Investigation of Aluminum Alloys for Car Building

FERIODICAL:

Tr. Vses. n.-1. in-ta zh.-d. transp., 1959, No. 171, pr. 5-65

TEXT: The authors review the properties of the Al-Alloys applied to car building in the various countries, and they give an account of the methods and results of investigation of the fatigue strength and the corresion fatigue of the magnalium alloys AMr 3 (AMg3) and AMr6T (AMg6T) 19 The specimens were tested on an electromagnetic stand of the resonance type assuring the specimen natural vibrations of 30-200 cps frequency. At $N = 10^5 - 10^8$ cycles, the fatigue strength of the AMg6T alloy in air and in 36-aqueous solution of NaCl is higher than the properties of AMg3, but hereat the decrease of the fatigue strength of the latter in a corrosion medium is relatively greater. The conventional limit of the corrosion fatigue of AMg6T amounts to $0.45_6 - 1$ of this alloy in air, and for AMg3

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Card 1/2

85117

Investigation of Aluminum Alloys for Car Building

3/123/60/000/017/001/016 A005/A001

tions of the electrode potential of the Al-alloys are presented and discussed depending on the time and the stress state, the kinetics of formation and development of the corrosion-fatigue cracks were studied in their interaction with the stresses and the electrode potential, and it is shown that the corrosion media increase the rate of plastic deformation. The corrosion stability of the Al-alloys was investigated in solutions of chiorides and some acid media; the possibility of tanks for transporting concentrated acids. Corrosion tests of Al-alloys were performed at statical stresses. The preliminary plastic deformation intensifies the corrosion cracking of the magnalium alloys, and their sensitivity to the law ences.

F.P.A.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

Use of inhibitors for protecting rolling stock parts against corrosion in a water medium. Trudy fSHII MPS no.171:91-106 (MIRA 13:1)

159. (Corrosion and anticorrosives)
(Railroads--Rolling stock).

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Pop

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262120

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 12 (II), p. 433, # 47993

AUTHORS:

Vedenkin, S.G., Kovalev, Ye.A.

TITLE:

Vanadium Corrosion of Gas-Turbine Alloys

PERIODICAL:

Tr. Vses. n.-i. in-ta zh.-d. transp., 1959, No. 171, pp. 143-164

TEXT: The authors studied the effect of V (and Na) admixture in mazut of the Ural-Volga deposits, on corrosion and strength features of 2 heat-resistant alloy grades. The investigation was made on experimental laboratory installations. Furthermore, the possibility was studied of protecting parts of gas turbine installations from vanadium corrosion. It was established that 3M _417 (EI_417) steel exposed to the contact with artificial fuel "ash" containing V205, corroded at 730°C several hundred times faster than in air atmosphere. Endurance of 3M_481 (EI_481) steel at 700°C decreased by over a factor of 3 within a stress range of 20_27 kg/mm². Holding the EI_417 and EI_481 steel specimens in contact with artificial ash for 300 hours at 730°C, entails considerable loss of static strength and ductility. Cyclic strength of EI_481 steel, determined subsequently at room

Card 1/2

83418

Vanadium Corrosion of Gas-Turbine Alloys

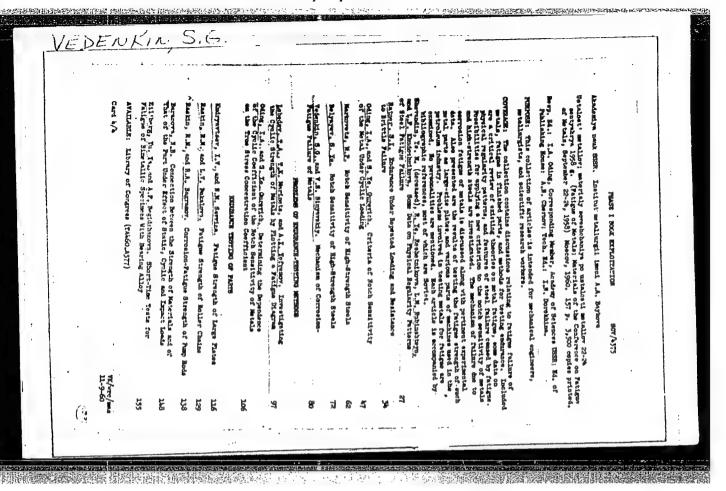
\$/081/60/000/012(II)/001/010 A006/A001

temperature, decreased by a factor of 2. The authors believe that the considerable effect of V205 + Na2SO4 on the corrosion rate at 730°C is caused by the chemical interaction of V205 with the metal. As a result V205 is deoxidized to V203 which is easily reoxidized to V205 by the air oxygen. Oxidation is accelerated when S02 is present in the fuel combustion product. In this case the high rate of scale formation in the combustion products of vanadium fuel is caused by the combined effect of V205 and S03. Kaolin and CaO reduce sharply the corrosion effect of vanadium mixtures at 730°C and a 3:1 weight ratio (the weight of the admixture to the weight of the mixture with ash).

A. Mamet

Translator's note: This is the full translation of the criginal Russian abstract.

Card 2/2



ROZENFEL'D, Iosif L'vovich; GCLUBEV, A.I., doktor tekhm.nauk, otv.red., retsenzent; IOFA, Z.A., prof., doktor khim.nauk, retsenzent; YEDENKIN, S.G., prof., retsenzent; HANKVITSER, A.L., red.izd-va; MAKUNI, Ye.V., tekhn.red.

[Atmospheric corrosion of metals] Atmosfernaia korroziia metallov. Koskva, Izd-va Akad.nauk SSSR, 1960. 371 p.

(Corrosion and anticorrosives)

VEDERKIN, S.G., prof.; ZOLOTARSKIY, A.F., kand.tekhn.nauk

Basic methods for the control of metal corrosion in railroad equipment. Yest. TSNII MPS 17 [..e. 19]10.7:3-7 '60.

(MIRA 13:11)

(Railroads--Equipment and supplies)

(Corrosion and anticorrosives)

VEDENKIN, S. prof., doktor tekhn.nauk

Fighting against a bitter enemy. FTO 3 no.2:12-15 F '61.

(MIRA 14:3)

1. Predsedatel* Komiteta Vsesoyuznogo soveta nauchno-tekhnicheskikh obshchestv oo korriozii i zashchite metallov i orgkomiteta tematicheskoy vystavki "Sredstva bor'by s korroziyey metallov i stroitel'nykh materialov v nardonom khozyaystve" pri Vystavke dostizheniy nardonogo khozyaystva SSSR.

(Corrision and anti-corrosives)

THE PROPERTY OF THE PROPERTY O

VEDENKIN, S.G., prof.; MOISEYEV, I.A., kand.tekhn.nauk; SINYAVSKIY,

V.S., kand.tekhn.nauk

Make wider use of aluminum alloys in manufacturing railroad
equipment. Zhel.dor.transp. 43 no.8:26-30 Ag '61. (MIRA 14:8)
(Aluminum alloys) (Railroads—Cars—Construction)

AR3005579

\$/0276/63/000/006/B081/B082

RZh. Tekhnologiya mashinostroyeniya, Abs. 6 B444

Vedenkin, S. G.; Sinyavskiy, V. S.

Studies in the field of corrosive metal fatigue

non properties de la company d

CITED SOURCE: Tr. Vses. mezhvuz. nauchn. konferentsii po vopr. bor'by

korroziyey. M. Gostoptekhizdat, 1962, 30-39

TOPIC TAGS: corrosive fatigue, metal fatigue

TRANSLATION: The paper contains the results of studies of corrosive fatigue on electromagnetic and other machines with the aid of chemical, metallographic, and roentgenographic methods. It was established that the deterioration of metal potential upon the application of cyclic stresses is not a cause by the results of the formation of a corrosive fatigue crack and that the protective action of the cathode current under conditions of corrosive fatigue is related first of all to the appearance of an alkaline medium at the cathode (tested sample) sufficient to passivate the metal and prevent the reduction of fatigue strength

Card 1/2

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under the action of the corrosive medium. It is shown that at the metal surface under conditions of application of cyclic stresses and the action of the aggressive medium, the following processes can occur simultaneously: metal corrosion; formation of surface films; disruption of continuity of these films (as a result of the simultaneous action of stresses and the aggressive medium); adaresult of the metal surface with damaged film of the surrounding surface- or corrosive-active medium facilitating the deformation of the metal; the formation of vacancies and their coagulation (as a result of the free movement of dislocations to this surface). Depending on actual conditions to which the test sample or machine parts are subjected (character of the surrounding medium, size of acting loads, frequency of their application), as well as depending on the quality of the metal, the relative value of the above factors (corrosive, adsorptive lowering of strength and the effect of dislocations) can vary in the mechanism of the appearance and development of corrosive fatigue cracks.

DATE ACQ: 24Jul63

SUB CODE: ML

ENCL: 00

Card . 2/2

ACCESSION NR: AT4010279

\$/3053/62/000/000/0030/0039

AUTHOR: Vedenkin, S. G.; Sinyavskiy, V. S.

TITLE: Studies in the field of the corrosive fatigue of metals

SOURCE: Trudy* Vsesoyuznoy mezhvuzovskoy nauchnoy konferentsii po voprosam bor'by* s korroziyey, Baku, 1962. Moscow, 1962, 30-39

TOPIC TAGS: corrosion, corrosion fatigue, crack, aluminum alloy, mechanical fatigue, fatigue, electromagnetism, resonator, fissure, vibration frequency stress, cyclic stress, cathode current, alkaline, microspore, spore, adsorption, corrosion passivation, corrosive cracking

ABSTRACT: The development of cracks on aluminum alloys and steel, due to mechanical and corrosive fatigue, was studied by conventional methods and also by the use of an electromagnetic resonance machine. This machine was used to find the time of appearance of the fissure and the rate of its increase by measuring the frequency of vibration. The potential of the metal becomes less positive when cyclic stresses are applied to it. This fact is believed to be not the cause, but the result of the formation of fissures due to corrosive fatigue. The protective action of the cathode current in the prevention of corrosive fatigue results from the

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alkalinity of the cathode of the tested specimen. The alkalinity is sufficient for the passivation of the metal and prevents further corrosive action. The authors suggest that if the metal is exposed to an aggressive environment, the distortion of the surface layer occurs in the places at which the stresses are concentrated. The dislocations move to these distortion places and create vacancies. The coagulation of these vacancies creates microspores that, in turn, grow into microfissures. The adsorption of the different surface-active substances occurs mostly on the deformed parts of the metallic surface and favors the forma tion and development of the microfissures. The presence of these fissures makes the metal more active and corrosive processes develop. There is a difference of oxygen content in the solution on the metallic surface and on the bottom of the fissure (aeration effect) that contributes to the corrosion rate, but does not appear to be the deciding factor in the corrosion process. Orig. art. has:

10 figures.

ASSOCIATION: TSNII MPS

SUBMITTED: 00 SUB CODE: MM

DATE ACQ: 28Jan64

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ENCL: 00 OTHER: 001

Card 2/2

VEDENKIN, S.G., prof.; SINYAVSKIY, V.S., kand. tekhn. red.;
MOISETEV, I.A., kand. tekhn.nauk; POPOV, A.V., red.;
DROZDOV, N.D., tekhn.red.

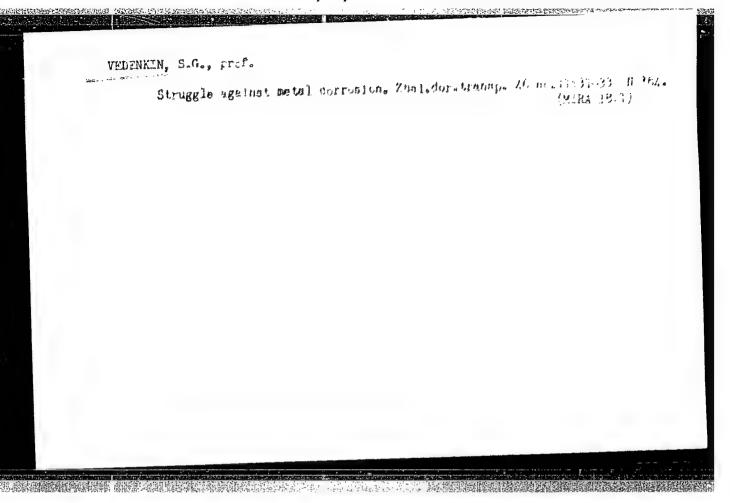
[Aluminum alloys for the rolling stock] Aliuminievys splavy
dlia podvizhnogo sostava. Pod red. S.G.Vedenkins. Moskva,
dlia podvizhnogo sostava. Pod red. S.G.Vedenkins. Moskva,
Transzheldorizdat, 1962. 41 p.

1. Moscow. Vsesovuznyy nauchao-issledovatel'skiy institut
zheleznodorozhnogo transporta.
(Railroads--Rolling stock) (Aluminum alloys)

VEDENKIN, S.G.; SINYAVSKIY, V.S. (Moscow)

Mechanism of corrosion-fatigue failure. Zhur.fiz.khim. 36 no.10: 2209-2214 0 '62. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta Ministerstva putey soobshcheniya.



APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859220013-0"

ward Trans to Jak 7 Some the second of the 4 1 1 B 11 SOURCE: Ref. zh. Khimiya, Abs. 6K57 AUIHOR: Vedenkin, S.G.; Sarycheve, G.S.; Komissarova, V.S.; Chicherina, Ye.A. wi TITLE: Corrosion fatigue resistance of aluminum alloys CITED SOURCE: Sb. Korrozion. ustalost' metallov. L'vov, Kamenyar, 1964, 194-202 TOPIC TAGS: aluminum base alloy, corrosion fatigue, fatigue strength, corrosion fatigue resistance, corrosion resistance, notch sensitivity, bending stress/ TRANS: ATION: Results are given of a letermination of the fatigue strength of various A .- alloys with continuous and partially immersion of the sample in 0.0016 and % In the 4 solution the fatigue strength of the investi-NaCl molations. gated alloys decreases by 40 to 10%, as obspared with tests male in air. In the U.OOL: NaCl solution one despense to conditerably less. That pening increases the fatigue end the corrosion fatigue resistance of the alloys and can be considered as . the fatigm atmost of VP Card 1/2

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creases by 75%. The relative notch sensitivity of the investigated alloys (round notch, R = 0.75 mm, $n = 10^7$ in the ratio σ_{-1}/σ_{-1n}) in tests in % MaCl solution was 1.3 - 2.5 (cantilever-type test) and 1 $\frac{1}{2}$. 1.37 (direct flaxure test). From author's resume.

8UB CODE: MM, 48

27**20** L. 00

VEDENKIN, Sergey Grigor'yevich, prof.; VINITSKIY, Lazar' Yefiscvich kand. tekhn. nauk; DJK'YANCHIKOV, Ivan Kuz'mich, inzh.; RYZHOVA, Zinaida Alekseyevna, kand. tekhn. nauk; SIIKOVUKIY, Il'ya Pavlovich, inzh.; BRATCHIK, Ye.I., red.

[Polymers in railroad transportation] Polimery zheleznodorozhnomu transportu. [By] S.G. Vedenkin i dr. Moskva, Transport,
1964. 91 p. (MIRA 18:1)

A TO THE PERSON OF THE PERSON WAS THE ACT THE PERSON OF TH

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhelezno-dorozhnogo transporta, otdeleniye polimerov (for Ryzhova).

2. Glavnyy konstruktor Vsesoyuznogo nauchno-issledovatel'-skogo instituta zheleznodorozhnogo transporta (for Sitkovski,).

3. Rukovoditel' otdeleniya polimerov Vsesovuz-nogo nauchno-issledovatel'skogo instituta zheleznodorozhnogo transporta (for Luk'yanchikov).

4. Rukovoditel' laboratorii korrozii otdeleniya ispytaniya materialov i konstruktsiy Vsesoyuznogo nauchno-issledovatel'skogo instituta zhelezno-dorozhnogo transporta (for Vedenkin).

5. Rukovoditel' laboratorii reziny otdeleniya polimerov Vsesoyuznogo nauchno-issledovatel'skogo instituta zhelezno-issledovatel'skogo instituta zhelezno-dorozhnogo transporta (for Vinitskiy).

VEDENKIN, S.G.; DOBROLYUBOV, V.V.

Corrosion and protection of rails in tunnels. Zashch.met. 1 no.1:84-90 (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel skiy institut zheleznodorozhnogo transporta.

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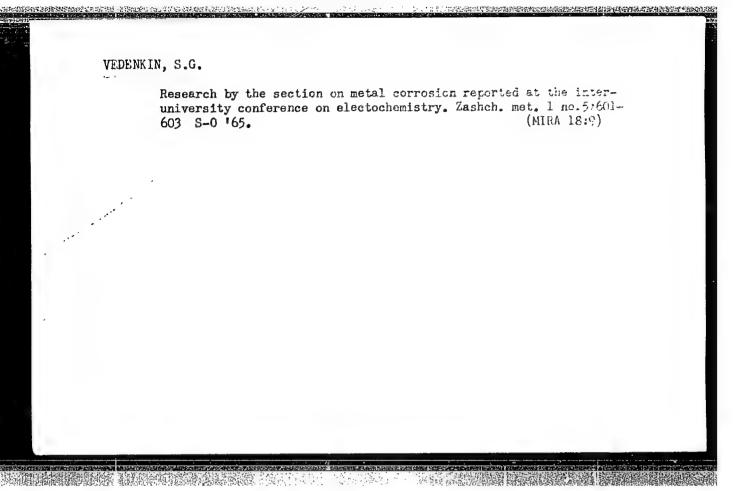
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EWT(m)/EPF(c)/EPF(n)-2/EWG(m)/EWA(d)/EWP(j)/T/EWP(t)/EWP(z)/ IJP(c) EWP(b) RM/DS/MJW/JD/WW/JG/WB ACCESSION NR: AP5022665 UR/0365/65/001/005/0601/0603 AUTHOR: Vedenkin, S.G. TITLE: Work of the metal corrosion section of the Inter-VUZ Conference on 44,55) (4 SOURCE: Zashchita metallov, v. 1, no. 5, 1965, 601-603 TOPIC TAGS: metallurgic conference, solution property, electrochemistry, chemical conference, corrosion ABSTRACT The Inter-VUZ scientific conference on electrochemistry, held 31 May-2 June 1965 at the Novocherkassk Polytechnic Institute, was divided into five sections, one of which was devoted exclusively to metal corrosion. More than one-half of the 250 reports presented dealt with corrosion inhibitors. 15 S. A. Balezin, V. I. Rodinova, and Ye. S. Bulavina (Moscow Pedagogic Institute) found that PB-5, I-1A, and BA-6 inhibitors, and especially Katapin K, effectively lower the corrosion rate of EI-432 [AISI317T], EI-448 [AISI316T], and SKhL-4 alloy steels in 5-30% HCl/at 25-80C, but only Card 1/4

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of the inhibitors decreases and the corrosion rate of EI-448 increases.	
A. P. Brynsa (Dnepropetrovsk State University) stated that the anionic and molecular-type substances containing groups consider the substances containing groups consider the substances.	
(nitroderivatives of aniline sulfoacids of naphthalene, and others) are effective inhibitors of titanium corrosion in acid media. Ye. A. Yakovleva and V. V. Andreyeva (Institute of Physical Chemistry, AN SSSR) found that titanium cor-	of the first man
nated by introducing tetravelent titanium or NO ions.	
I. K. Burtseva and A. I. Krasil'shchikov (GIAP) found that the inter- crystalline corrosion of stainless steels in nitric acid develops mainly at high	
A. I. Glukhova and V. V. Andreveya (Institute of Division) Co.	
AN SSSR) reported on the high corrosion resistance of Nb-Ti alloys in oxidiz-	
Card 2/4	-

L 1347-66 ACCESSION NR: AP5022665 ing media. The alloys also resist corrosion in KOH solutions with a concentration of up to 20% and temperatures up to 40C. At higher alkali concentrations and temperatures the corrosion resistance decreased. V. P. Grigor'yev and V. V. Kuznetsov (Rostov State University) found that various ketones slow down the corrosion of aluminum in HCl and H SO4 only when the aluminum surface has an oxide layer whose dissolution is slowed down in the presence of cations. T. N. Smirnova and co-workers reported on the effect of some technological factors on the corrogion resistance, electrochemical characteristics, and structure of AMG-6 alloy. They also established optimum aging conditions for V-92 aluminum alloy which ensure good corrosion resistance and high mechanical properties (4 hr at 60C + 3 hr at 200C) or improve the resistance to stress corresion in the weld and weld-adjacent zone. Yu. P. Khranilov and V. S. Poroykova (Ivanovsk Chemical Technology Institute), in their report on the corrosion resistance and anodic behavior of Card 3/4

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that vacuu	m annealing at	600C incre	ases the e	mair com	mercial-	grade Z	r and	
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Problem number one. rroftekh. obr. 21 no.11:16-17 N Med (MIRA 18:2)
1. Zaveduvushchiy uchebno-metodicheskim kabinetom Chelya- binskogo oblastnogo upravleniya professional no-tekhni- cheskogo obrazovaniya.

ZUYEV, I.; VEDEN'KOV, S.

Experimental showed good results. Prof. tekh. obr. 21 no.1:27-28
Ja 164. (MIRA 17:3)

1. Direktor TSentral nogo uchebnogo kombinata Yuzhno-Ural skogo soveta narodnogo khozyaystva (for Zuyev). 2. Zaveduyushchiy metodicheskim kabinetom Chelyabinskogo oblastnogo upravleniya professional no-tekhnicheskogo obrazovaniya (for Veden kov).

VEDEN'KOV, K. P., Cand Agric Sci -- (diss) "Experience of artificials, heafed het Construction and Utilization of Hot Houses in Technical Marm-Ups on Farms of the Moscow and Leningrad Oblasts."

Len-Pushkin, 1956. 30 pp (Min Higher Ed USSR. Len Farm-Recomment Inst); 120 copies. Printed on a multiplifying machine (KL 40-58, 114)

25

ENDRYAVELUE, V. V. VETTNISON, Ve.P., INSTANCE, Zh.L.

Aftereffects of a temporary reduction in light intensity in tomatoes. Izv. AN Kazakh. SSR. Ser. biol. nauk 2 no.6;30-38 N-D '64.

(MIRA 18:3)

LUBENETS, V.D., kand. tekim. nauk, dotsent; VASIL'YEV, V.I., inzh.; VEDENIN, V.A., inzh.

Perfect operating process and theoretical indicator diagrams of a two-rotor vacuum pump with partial internal pressure.

Izv. vys. ucheb. zav.; mashinostr. no.10:119-132 '64 (MIRA 18:1)

1. Moskovskoye vyssheym tekhmicheskoye uchilishche imeni N.E. Baumana.

AND LEADING MANAGEMENT OF THE PROPERTY OF THE

0 158.	angle and long-foc	(MIRA II:	11)

About sharpness and lack of sharpness of pictures (to be continued) Sov.foto 22 no.3:36-37 Mr '62. (MIRA 15:2) (Photography)
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How to dete Ap '63.	ermine the corre	ect exposure.	no.4:33-35 (MIRA 16:5)

Sharpness and blurry in photograp '62.	raphy. Sov.foto 22 no.4:34-36 (MIRA)	ó 15:4)

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VEDENOV, A.

How to determine the best exposure. Sov. foto 23 no.5:
(MIRA 16:10)
32-33 My '63.

VENLECV, A. A.

USSR/Electronics - Amplifiers

Card

: 1/1 Pub. 118 - 3/15

Authors

: Lopukhin, V. M. and Vedenov, A. A.

Title

: An amplifier based on absorption

Periodical :

Usp. fiz. nauk 53/1, 69 - 86, May 1954

Abstract

An amplifier, designed on a new idea in which the phenomenon of absorption is utilized, is described. The coefficient of amplification is about 30 db. and the band pass about 70 - 120% with respect to the carrier. Three references. Diagrams; graphs; illustrations.

Institution :

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Submitted

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Trevalation D 415987

VEDENOV. A.A.

Wonlinear phenomena in traveling wave amplifier tubes. Hadiotekh. i elektron. 1 no.10:1377-1378 0 '56. (MLRA 10'1)

1. Fisicheskiy fakulitet Moskovskogo gosudarstvennogo universiteta.
(Amplifiers, Flectron-tube)

VELERUY, M. H.

SUBJECT

USSR / PHYSICS

CARD 1 / 2

1457

AUTHOR TITLE

VEDENOV, A.A.

On the Theory of the Decay of Pions.

PERIODICAL

Žurn.eksp.i teor.fis,31, fasc.2, 347-348 (1956)

Issued: 10 / 1956 reviewed: 11 / 1956

Here the problem of the decay $\pi \rightarrow \mu + \gamma + \gamma$ is investigated under the assumption that the myon has the abnormal magnetic moment $\mu_a = \mu' + e/2M$. Here M denotes the mass of the myon. Mesonic interaction is assumed to be scalar. (Pseudoscalar the mass of the myon. Mesonic interaction is assumed to be scalar. (rseudoscalar interaction leads to the same results, see B.L.IOFFE and A.P.RUDIK, Dokl. Akad. Nauk, 82, 359 (1952): $H_{\pi,\mu\nu} = g(\phi_{\nu},\phi_{\mu}) \Psi_{\pi} + \text{conjugated complex terms.}$ The interaction of the myon with the f-quantum is given by the following expression: $H_{\mu\nu,f} = -ie\hat{A} - (1/2)i\mu^{\nu} \int_{i} \int_{k} F_{ik}$, $F_{ik} = \frac{\partial A_{k}}{\partial x_{i}} - \frac{\partial A_{i}}{\partial x_{k}}$. The matrix element of this process is equal to $M = \frac{2\pi eg}{\sqrt{E_{\pi}!k!}} \bar{u}_{\mu} \left[\hat{e} - \frac{i}{2e} \frac{\mu\nu}{(\hat{k}\hat{e} - \hat{e}\hat{k})} (i\hat{p} + i\hat{k} - M)^{-1} \mu\nu\right]$

Here up and up are the unit-bispinors of the wave functions of the myon and of the neutrino, $k(\vec{k},|k|)$ - the four-momentum of the photon, $p = (\vec{p},k)$ - the fourmomentum of the myon, e - the unit vector of the polarization of the photon. By averaging over polarizations and spins the decay probability dw is obtained, The rather voluminous expression for dw is explicitly given. By integration with respect to the emission directions of the photon the probability of the decay with emission of one myon with the momentum p is obtained. (Here it is assumed that m = 0). Also this expression is rather voluminous and is explicitly given.

2620年1月2日 - 1980年1月2日 - 1980年11日 - 19

Žurn.eksp.i teor.fis,31,fasc.2, 347-348 (1956) CARD 2 / 2 In the nonrelativistic case p $\langle \langle M, E_{\pi} |$ it is true that $E = M + p^2/2M$. If the range R of the myon is put proportional to p^4 , the following is obtained for the

of the decay $\pi \to \mu + \gamma$.

A comparison with the results obtained by IOFFE and RUDIK (see above) shows that the occurrence of abnormal magnetic moment in the myon may lead to an increase of the number of mesons, particularly in the case of short ranges. Similar results may probably be expected also for the case in which the spin of the myon is greater than 1/2.

INSTITUTION: Moscow State University.

VEDENOV, A.A.

56-6-31/47

AUTHOR:

Vedenov, A. A.

TITLE:

On Some Solutions of the Equations of the Hydrodynamics of Plasma (O nekotorykh resheniyakh uravneniy gidrodinamiki plazmy)

PERIODICAL:

Zhurnal Eksperimental noy i Teoreticheskoy Fiziki, 1957, Vol. 33, Nr 6 (12), pp. 1509 - 1511 (USSR)

ABSTRACT:

The present report investigates some accurate solutions of the hydrodynamic equations of a cold plesma with and without the presence of an exterior magnetic field. The ions are here considered to be at rest for reasons of simplicity; this is not a restriction in principle. With a one-dimensional flow in the plasma the solution of the equations $\frac{\partial v}{\partial t} + v \frac{\partial v}{\partial x} = \frac{e}{m} E; \frac{\partial E}{\partial x} = -4 e(n-n_+)$ $\frac{\partial n}{\partial t} + \frac{\partial (nv)}{\partial x} = 0; v = e^{-t/t} \circ v_o(z); \frac{e}{m} x_o E = e^{-t/t} \circ \xi_o(z);$

 $z = -\frac{x}{x_0} - e^{t/t_0}$ can be set up. Here v denotes velocity, n - the

density of electrons, n - the density of ions, E - electric field strength, and x - and t - random constants. In order to explain the character of this solution the author substitutes y = $\ln z$ and

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56-6-31/47 Plasma

On Some Solutions of the Equations of the Hydrodynamics of

inserts the above ansatz into the above equations. In this system of equations y is then developed in series and a term is disregarded. The system obtained in this way then describes a wave which is propagated with the velocity V. Next, the equations are written down in consideration of a homogeneous and constant exterior field, and also for this case the solution is given. A similar solution is obtained also for a motion in which only v_x , v_y , E_x are different from zero, and in which all quantities depend only upon x, t. Also this system has wave-shaped solutions which depend on the difference x - Vt. At $|1 - n/n| \ll$ the solution of this system becomes harmonic. There is 1 Slavic reference.

ASSOCIATION: Moscow State University

(Moskovskiy gosudarstvennyy universitet)

SUBMITTED:

July 4, 1957

AVAILABLE:

Library of Congress

Card 2/2

VEDENOV, A. A. and SAGDEEV, R. Z.

"Some Properties of the Plasma with Anisotropic Distribution of the Velocities of Ions in the Magnetic Field." (Work carried out in 1957); pp. 278-284.

"The Physics of Plasmas; Problems of Controlled Thermonuclear Reactions." Vol. III. & 1958, published by INst. Atomic Energy, Acad. Sci. USSR. resp. ed. M. A. Leontovich, editorial work V. I. Kogan.

Available in Library

VEDENOV, A. A. and RUDAKOV, L. I.

"The Motion of a Charged Exrticle in the Rapidly Alternating Electro-Magnetic Fields." (Work carried out in 1959); pp. 43-48.

"The Phsylcs of Plasmas; Problems of Controlled Thermonuclear Reactions." Vol. IV. 1958, published by Inst. Atomic Energy, Acad. Sci. USSR. resp. ed. M. A. Leontovich, editorial work V. I. Kogan.

Available in Library.

VEDENOV, A. A. Cand Phys-Math Sci -- (diss) "Problems of the statistical physics of systems with coulomb interaction." Mos, 1959. Cover, 4 pp (Mos Order of Lenin State Univ im M. V. Lomonosov. Phys Faculty), 120 copies (KL, 45-59, 142)

-2-

PRARE I DOME EXPLOYMENCE ENT/2001.	(Superts of Sories Scientists; 552 p. (Series: Test Trudy, Vol. 1), 17.7. Volain: Academician; and semical Science; Ed. of this additions of Physical and Series (Cont. No. 1. No	places as controlled throw parts. But I contains IT propers dealing with places and constrolled theremeniar Practical, and Mrs. II contains 25 sension and constrolled theremeniar Practical and the IT contains 25 sension and particular payelined the factoring problems of particular and of sension and controlled. The fact is the fact are received. The received are constrolled propers in the controlled propers in the controlled problems in this field. The sension of heart IT deal in a their field to receive the received problems in an interpretation of the properties, and with the right of the controlled problems in the controlled properties. The sension of heart IT deal in a their field, such several problems in the control of the properties, and with the right of the controlled problems of the properties of the properties. The properties of the	maidras Machaer (cont.) sov/2001	T.I. Sinityn. Spectroscopie Sunty of Righ Tomper-	Samily wines, E.B., S.H., Soydite, E.B., Ryphery, L.Y., Dabory; A.H., Browning of the Conservation, P.S., Lettendry, S.G., Erroury, and M.G., Spring of the Second of th		Thereor, A.A., P.F. Wallow, L.T. Backbow, R.Z. Backeywe, W.H. Classiew, J.L. Ballongew, and V.V. Ballill. Hert landslice and Comfidence of Phones in a Mich Progressory Magnetic Field (Paper 2501)	Register, R.E., B.B. Bedontser, L.T. Bedator, and A.A. Bedator. Bymedica by a Brieflad Flacin in a baggetic Pield (Report 'ZLT)	•	
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sov/56-36-2-57/63

24(8) AUTHOR:

Vedenov, A. A.

TTTLE:

Thermodynamic Properties of a Degenerated Plasma (Termo-

dinamicheskiye svoystva vyrozhdennog plazmy)

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1959,

Vol 36, Nr 2, pp 641-642 (USSR)

ABSTRACT:

The author calculates the correction (which is due to the interaction) to the thermodynamic potential Ω of a fully ionized hydrogen plasma for the case in which the electrons of the plasma have to be considered as a Fermi gas and the nuclei form a Boltzmann (Bol'tsman) gas. These calculations are carried out according to the diagram technique developed by Matsubara (Ref 1) for the statistical Green's (Grin) functions of quantum statistical physics. The ratio between the averaged scattering amplitude in the Coulomb (kulon) field e^2/\bar{E} and the average distance R between the particles is assumed to be small: $e^2/RE \equiv \alpha \ll 1$. The author investigates the case in which the chemical potential μ and the temperatures T are of the same order of magnitude. Moreover, it holds that $E\sim T$. Under such conditions, the plasma is highly compressed. Under the above-discussed conditions the thermodynamic potential S

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SOV/56-36-2-57/63

Thermodynamic Properties of a Degenerated Plasma

of the plasma represents an expansion with respect to the small parameter α ; the corresponding formula for Ω is given explicitly:

explicitly: $\Omega = \Omega_{0} - \left(\sqrt[q]{\frac{e}{p}} \frac{e}{p+q} \frac{e}{dpdq} - \frac{2}{3} \sqrt{\pi}e^{3} \left(2 \frac{\partial n_{e}}{\partial \mu_{e}} + \frac{\partial n_{i}}{\partial \mu_{i}} \right)^{3/2} \right)$

 $n_{p} = \left[1 + \exp(p^{2}/2m - \mu)/T\right]^{-1}, n = \begin{cases} n_{p} d^{2} \end{pmatrix}$

 Ω_0 denotes the thermodynamic potential of the ideal gas consisting of electrons and nuclei, $V_q = 4\pi e^2/q^2$ - the Fourier (Fur'ye) component of the potential of the Coulomb interaction $e^2/|\vec{x}|$, μ_e and μ_i - the chemical potentials of the electrons and nuclei respectively. The second term in the above-given formula denotes the exchange energy of the electrons and the third term is due to the self-consisting interaction of the particles. According to the author's opinion, a result

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Thermodynamic Properties of a Degenerated Plasma SOV/56-36-2-57/63

obtained by Landau and Lifshits is incorrect. The author thanks L. D. Landau for a discussion. There are 2 references, 1 of

which is Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet

(Moscow State University)

SUBMITTED: November 13, 1958

Card 3/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859220013-0"

SOY/56-36-3-56/71

24(3) AUTHÓR:

Vedenov, A. A.

TITLE:

The Free Energy of Strong Electrolytes (Svobodnaya energiya

sil'nykh elektrolitov)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959,

Vol 36, Nr 3, pp 942 - 943 (USSR)

ABSTRACT:

By employing the diagram technique for the calculation of the pair correlation function in classical theoretical physics, which was developed by the author (Ref 1), a formula is given by the present paper ("Letter to the Editor") for the calculation of free energy in strong electrolytes. In this connection it is assumed that the radius of the close-range action repulsive forces ro and the neutralized scattering amplitude e'2/T in the Coulomb field e'2/r are considerably smaller than the average distance between the particles $\vec{r} = \gamma^{-1/3}$. The system under investigation is thus near an ideal state, i.e. the interaction-dependent corrections to the free energy are small in comparison to the free energy of the perfect gas. It is further assumed that the electrolyte consists of two kinds of particles with the charges

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